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a McDermott company

Manufacturing

To	C. A. PALMBERG - PROJECT MANAGEMENT - BVCB3K +2532	BDS 663-8
From	P. L. CIOFFI - MGR - COMBUSTION SYSTEMS - BVNO1C	
Cust.	INTERMOUNTAIN POWER PROJECT	File No. or Ref. RB-614/615
Subj.	IPP BURNER UPGRADES	Date MAY 1, 1991

This letter to cover one customer and one subject only.

1/8" scaling [commercially available]

The following is a summary and description of the proposed modifications made to the dual register burners as shown on the attached sketch, SK41791E/0:

Outer Air Register

1. Replaced outer air register with modified HD register.
2. Register front plate thickness increased from 1/2" to 5/8", material changed from carbon steel to 800H.
3. Register back plate thickness increased from 1/2" to 5/8", material changed from TP304 to 800H. (1 piece)
4. Center section of register back plate separated from register frame and attached with clips to allow for expansion. free floating
5. Register door thickness increased from 1/8" 10 ga. to 3/16", additional alloy stiffeners added to doors. 80% repaired
6. Added support legs (not shown on sketch) to register back plate.

Throat Sleeve

7. Throat sleeve thickness increased from 1/4" to 3/8", material changed from TP304 to 800H.
8. Throat sleeve attached to register front plate with clips to allow for radial expansion.
9. Expansion ring added to throat sleeve OD (similar to S/EXCEL design).

Slip Seal

10. Slip seal moved outboard on register front plate to eliminate interference with throat sleeve expansion. Seal arrangement reversed to minimize radiant heat on rope packing.

800H
(304) \$

Slip Joint - Red
Outer Register
2 mode operation
actuators

IP7_003737